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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/642,265	08/18/2003	James Edward Angelo	50103-566	1518
	7590 09/19/200 CHNOLOGY LLC	James Edward Angelo  09/19/2007  OGY LLC  LL & EMERY LLP  W	EXAMINER	
	OTT WILL & EMERY	LLP	FALASCO	, LOUIS V
600 13TH STREET, NW WASHINGTON, DC 20005-3096		ART UNIT	PAPER NUMBER	
			MAIL DATE	DELIVERY MODE
			09/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/642,265	ANGELO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Louis Falasco	1773				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address				
	V. 10 057 70 5V5157 - 146V7	(2) 22 - 112 - 112 - 112				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO (36(a)). In no event, however, may a reply be ting will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed  n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 17 J	ulv 2007.					
· <u> </u>						
3) Since this application is in condition for allowa	, <del> _</del>					
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>19-26</u> is/are pending in the application.						
4a) Of the above claim(s) <u>25</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>19-24,26</u> is/are rejected.	· · · · · · · · · · · · · · · · · · ·					
7) Claim(s) is/are objected to.	<u> </u>					
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers		·				
9) The specification is objected to by the Examine	ar					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	*	• •				
11) The oath or declaration is objected to by the Ex	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • • •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. & 119/a	a)-(d) or (f)				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1.☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Burea	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)  1) X Notice of References Cited (PTO-892)	A\	(DTO 442)				
1) \( \sum \) Notice of References Cited (P10-892) 2) \( \sum \) Notice of Draftsperson's Patent Drawing Review (PT0-948)	4) 💹 Interview Summary Paper No(s)/Mail D					
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5)  Notice of Informal F	Patent Application				

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#### **DETAILED ACTION**

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### Papers Received

1. The Amendment and Remarks filed 7/17/07 are acknowledged.

#### Claims

2. The claims are: 19 to 26.

## Election/Restriction of Invention

3. Claims under consideration remain those drawn to Species A - claims 19 to 24 and 26.

# Claim Rejections

Statutory Basis

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

## Rejections

4. Claims 19, 21-24 and 26 are rejected under 35 U.S.C. §103(a) as being unpatentable over Holmes et al (WO 99/59036) or Mentz et al (US 6017657) or Nishizaki et al (US 5550663).

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Holmes et al, Mentz et al and Nishizaki et al all teach a main body with means for embossing sinusoidal shaped recesses of these claims (Drinkwater page 9 lns 16-30 and Mentz et al col. 9 lns 22-45; Nishizaki et al col. 6 lns 36-40). The Holmes et al, Mentz et al and Nishizaki et al embossing means differ merely by the intention to serve as a 'landing zone'. However, these prior art embossing means (tools) would reasonably be expected to meet this limitation since they are in the size range to provide a 'landing zone'. The embossments are sized to diffract a light wavelength (Holmes et al page 10 lns 14-16 and Mentz et al. col. 8 ln 49- col. 11, Nishizaki et al col. 3 ln 66- col. 4 ln 6). Adjustments to a size would at most be an obvious matter of routine optimization, changes in size alone is not sufficient to establish patentiblity<sup>1</sup>.

- As regards claim 21, sinusoidally protrusions being a negative
  pattern of positive recesses, this would have been inherent in the
  Holmes et al and Mentz et al and Nishizaki et al since an
  embossing relief tool.
- As regards claim 22, 23 and 24 metal tool, including Al- see Mentz et al col. 9 lns 17-19. The prior art recognizes the effectiveness of metals in embossing tools, selection of a specific metal would have been prima facie obvious, as a matter of selecting know metals based on their suitability for intended use. See MPEP 2144.07.

<sup>&</sup>lt;sup>1</sup> See MPEP 2144.04, and In re Rose, 105 USPQ 237 (CCPA 1955).

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- As regards claim 26 spacing 0.1-10μm depth 10-200 Å, this is within a size to diffract a visible light wave in Holmes et al and Mentz et al and Nishizaki et al. At most, this would be a matter of routine optimization or choice as variations in size alone is not sufficient to establish patentiblity. MPEP 2144.04 (at section IV).
- 5. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Holmes et al (WO 99/59036) or Mentz et al (US 6017657) or Nishizaki et al (US 5550663) as applied to claims 19, 21-24 and 26 above, and further in view of Belser (US 6643082).

Holmes et al, Mentz et al or Nishizaki et al differ from what has been claimed by not stating the embossing tool as means emboss servo and data zones. However, Belser points out embossing tools are known for a servo and data zones (Belser col. 1 lns 55-61, col. 5 lns 34-41). The limitation that embossing tool will be for embossing servo and data zones can be given little weight since it is an intention and the an embossing tool as claimed would be of a general utility not limited to the intention. A person of ordinary skill in the art would have reasonably expected Holmes et al Mentz et al or Nishizaki et al embossing tool to yield a predictable result size of known for servo and data zone shown by Belser. KRS International Co. v. Teleflex Inc. 82 USPQ2d 1385.

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Examiners comments on allowable subject matter

6. It is note that the claim 23 also includes *Al* with a *NiP* embossing surface

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as one of the alternatives for the embossing tool. Upon consideration of this

limitation, even though not specifically claimed, the examiner points out that no

art fairly suggest NiP surface Al tool. If this were independently claimed, such a

claim would be considered allowable.

Other References

7. **Vezenov et al** (US 2002/0168592) is cited as being of interest, but not

applied, teaching a stamper with polymeric surface layer.

8. **Aoyama et al** (US 6147732) is cited as being of interest, as cumulative to

the primary art teaching sinusoidally negative pattern of recesses to be

embossed.

Conclusion

1. The claims are 19 to 26; claim 25 has been withdrawn from consideration.

No claim has been allowed.

**INQUIRES** 

Any inquiry concerning this communication or earlier communications

from the examiner should be directed to Louis Falasco, PhD whose telephone

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number is (571)272-1507. The examiner can normally be reached on M-F 10:30 - 7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol D. Chaney, PhD can be reached at (571)272-1284. The fax phone number for the organization where this application or proceeding is assigned is (571)273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C LF 09/07

CAROL CHANEY
SUPERVISORY PATENT EXAMINER